

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**LISTING OF CLAIMS:**

1. (Currently Amended) Sensor holder for arranging at least one rectangular-shaped sensor through a wall and a throughgoing opening of a housing and into communication with an inside of the housing, said sensor holder comprising a first and a second component, the first component being adapted to contact said rectangular-shaped sensor and thereby hold said rectangular-shaped sensor, the second component being provided with a first sealing surface and at least one throughgoing opening, the first and second components adapted to arrange a portion of the rectangular-shaped sensor to extend from the first component, through the opening in the second component and into communication with the inside of the housing, a rectangular-shaped envelope surface of the throughgoing opening in the second component being adapted to be tightly sealed to the rectangular-shaped sensor when pressing together the first and second component of the sensor holder, and the first sealing surface of the second component being adapted to be tightly sealed to a second sealing surface provided in the housing when pressing together the sensor holder and the housing.

2. (Previously Presented) Sensor holder according to claim 1, whereby a portion of the throughgoing opening of the second component is frusto conical, the frusto conical portion being widened towards a surface opposite the first sealing surface, and whereby first sealing means for sealing is provided in the frusto conical portion of the throughgoing opening.

3. (Previously Presented) Sensor holder according to claim 2, whereby second sealing means for sealing is provided between the first sealing surface and the second sealing surface.

4. (Previously Presented) Sensor holder according to claim 3, whereby each of the first and second sealing means is a compressible sealing ring.

5. (Canceled)

6. (Previously Presented) Sensor holder according to claim 1, whereby the throughgoing opening in the housing has an oval or circular form.

7. (Previously Presented) Sensor holder according to claim 3, whereby the first sealing surface being provided with a groove for receiving the second sealing means, the groove having an oval or circular form.

8. (Previously Presented) Sensor holder according to claim 1, whereby a first portion of the first component is provided with a groove adapted to receive at least a portion of the rectangular-shaped sensor.

9. (Previously Presented) Sensor holder according to claim 8, whereby the groove is rectangular and is adapted to receive at least a portion of the rectangular-shaped sensor having a length between two opposite sides greater than a depth of the groove when one of said sides is facing a bottom of the groove.

10. (Previously Presented) Sensor holder according to claim 8, whereby the first component further comprising a second portion, and comprising fastening means for clamping together the first and second portions.

11. (Previously Presented) Sensor holder according to claim 1, further comprising fastening means for tightening the first and second components to each other.

12. (Previously Presented) Sensor holder according to claim 1, further comprising fastening means for tightening the sensor holder to the housing.

13. (Canceled)

14. (Previously Presented) Sensor holder according to claim 2, wherein the throughgoing opening of the second component is conical.

15. (Previously Presented) Sensor holder according to claim 4, wherein the compressible sealing ring is an O-ring.

16. (Canceled)

17. (Canceled)

18. (Canceled)

19. (Canceled)

20. (Currently Amended) Polygonal-shaped sensor and a sensor holder for arranging the polygonal-shaped sensor through a wall of a housing and into communication with an inside of the housing,

the sensor holder comprising a first component and a second component,

the first component contacting the polygonal-shaped sensor and thereby

holding the polygonal-shaped sensor,

the second component being provided with a first sealing surface and at least one throughgoing opening,

the polygonal-shaped sensor extending from the first component and through the opening in the second component,

a polygonal-shaped envelope surface of the throughgoing opening in the second component being tightly sealed to the polygonal-shaped sensor, and

the first sealing surface of the second component adapted to be tightly sealed to a second sealing surface provided in the housing.

21. (New) A sensor holder holding a polygonal-shaped sensor, the sensor holder comprising a first component and a second component;

a first portion of the first component having a grooved surface, wherein a first portion of the polygonal-shaped sensor is disposed in a groove of the grooved surface;

a second portion of the first component having a clamping surface clamped to the grooved surface and thereby holding the first portion of the polygonal-shaped sensor in cooperation with the groove of the grooved surface;

a second component having an opening; and

wherein a second portion of the polygonal-shaped sensor extends from the first component through the opening in the second component.

22. (New) A sensor holder according to Claim 21, wherein respective first portions of a pair of polygonal-shaped sensors are disposed in a pair of grooves of the grooved surface.

23. (New) A sensor holder according to Claim 22, wherein the clamping surface holds the respective first portions of the pair of polygonal-shaped sensors in cooperation with the pair of grooves of the grooved surface.

24. (New) A sensor holder according to Claim 22, wherein the second component has a pair of openings, and respective second portions of the pair of polygonal-shaped sensors extend from the first component through the pair of openings in the second component.

25. (New) A sensor holder according to Claim 24, wherein a fastener disposed between the pair of openings in the second component extends from the second component into an opening in the first component and thereby fastens the second component to the first component.

26 (New) A sensor holder according to Claim 21, wherein at least one fastener disposed in respective holes in the first portion and in the second portion clamps the second portion to the first portion.